## **CLAIMS**

## We claim:

5

10

15

20

25

30

- 1. A microbicidal composition comprising:
- (a) 0.5 to 20 percent, based on weight of the composition, of haloalkynyl compound;
- (b) 0.3 to 10 percent, based on weight of the composition, of chelated metal ion compound;
- (c) 40 to 99 percent, based on weight of the composition, of water; and
- (d) zero up to 30 percent, based on weight of the composition, of 3-isothiazolone compound.
- 2. The composition of claim 1 wherein the haloalkynyl compound is selected from one or more of the group consisting of 3-iodo-2-propynylpropyl-carbamate, 3-iodo-2-propynylbutylcarbamate, 3-iodo-2-propynylcyclohexylcarbamate and 3-iodo-2-propynylphenylcarbamate.
- 3. The composition of claim 1 wherein the chelated metal compound comprises metal ion selected from one or more of copper, zinc, ferric, magnesium, cobalt and silver ions.
- 4. The composition of claim 1 wherein the chelated metal compound comprises metal ion chelated with one or more amine chelating agents selected from the group consisting of alkylenepolyamines and carboxylate-containing amine compounds.
- 5. The composition of claim 4, wherein the chelated metal compound is in the form of a 1:1 molar complex of amine chelating agent and copper ion.
- 6. The composition of claim 4 wherein the amine chelating agent is selected from one or more of ethylenediaminetetraacetic acid and salts thereof, hydroxyethylenediaminetetraacetic acid and salts thereof, 1,3-diaminopropanetetraacetic acid and salts thereof, 1,2-diaminocyclohexanetetraacetic acid and salts thereof, 1,2-propylenediaminetetraacetic acid and salts thereof, ethylenediamine, propylenediamine, diethylenetriamine and triethylenetetraamine.
- 7. The composition of claim 1 comprising 1 to 25 percent of 3-isothiazolone compound.

- 8. The composition of claim 1, wherein the 3-isothiazolone compound is selected from one or more of 2-n-octyl-3-isothiazolone, 4,5-dichloro-2-n-octyl-3-isothiazolone, benzisothiazolone and N-alkyl derivatives of benzisothiazolone.
  - 9. A microbicidal composition comprising:

5

10

15

20

25

30

(a) 5 to 10 percent, based on weight of the composition, of haloalkynyl compound selected from one or more of 3-iodo-2-propynylpropylcarbamate, 3-iodo-2-propynylbutylcarbamate, 3-iodo-2-propynylhexylcarbamate, 3-iodo-2-propynylcyclohexylcarbamate and 3-iodo-2-propynylphenylcarbamate;

(b) 2 to 5 percent, based on weight of the composition, of chelated metal ion compound, wherein the chelated metal ion compound is a 1:1 molar complex of amine chelating agent and copper ion and the amine chelating agent is selected from one or more of ethylenediaminetetraacetic acid and salts thereof, 1,3-diaminopropanetetraacetic acid and salts thereof, 1,2-propylenediaminetetraacetic acid salts and thereof, 1,2-diaminocyclohexanetetraacetic thereof, salts acid and and ethylenediamine;

- (c) 60 to 70 percent, based on weight of the composition, of water;
- (d) 10 to 20 percent, based on weight of the composition, of 3-isothiazolone compound selected from one or more of 2-n-octyl-3-isothiazolone, 4,5-dichloro-2-n-octyl-3-isothiazolone, benzisothiazolone and N-alkyl derivatives of benzisothiazolone; and
- (e) zero up to 20 percent, based on weight of the composition, of adjuvants, selected from one or more of surfactants, dispersants and cosolvents.
- 10. A method of inhibiting the growth of microorganisms in a locus comprising introducing to, at or on, the locus a microorganism inhibiting amount of a microbicidal composition comprising:
  - (a) 0.5 to 20 percent, based on weight of the composition, of haloalkynyl compound;
    - (b) 0.3 to 10 percent, based on weight of the composition, of chelated metal ion compound;

- (c) 40 to 99 percent, based on weight of the composition, of water; and
- (d) zero up to 30 percent, based on weight of the composition, of 3-isothiazolone compound.

5